MERIT AWARD

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WHERE THE ROAD ENDS A CENTER FOR REGENERATIVE BUILDING RUBBER PROTOTYPES FOR LAND & SEA

1" = 4' physical model

CONTEXT: Where Land meets Sea - Gaps Connected by Boat

The Norwegian Scenic Routes: Road Culture and Ferry Crossings

Countless roads and highways terminate at the ocean's edge. In Norway, a robust infrastructure of electric ferries fill in these gaps and connect different isolated landscapes.

As climate change and sea level rise persist, more populations will have to interface daily life with the ocean. This proposal seeks to engage more populations with maritime culture, and it underscores that the ocean is a new frontier for engagement and inhabitation.











REGENERATIVE MATERIAL: Rubber – Highway, Automobile, and Maritime Uses

Recycling and Re-use

Rubber is used in countless products - from highway asphalt paving to boat bumpers. Much of it ends up in landfills.

"As the recycling industry continues to push toward the adoption of a more circular economy, waste that was once viewed as a burden is now being recognized as a resource. This is especially true with end-of-life (EOL) tires, which have become one of the most recycled materials on the planet, according to a report by the U.S. Tire Manufacturers Association."

This project reinvents rubber as a building material.









PROTOTYPE 1: Rubber Highway Guardrail Field Station

Experimentation & Training Classroom + Lab

Rubber was identified as a material that could withstand impact from cars and downhill skateboarders alike. A corrugated module is elastic laterally, but stiff vertically. Typically, steel guardrails and hay bales (for skateboard races) are located at steep, downhill sections of highways with apex turns. These areas are often sites with beautiful views. This prototype makes use of the corrugated module and hosts a walkway on top of it.



1" = 8' physical model

TWO BASE STATIONS: A Network of Prototypes along the Road

Typical Conditions at Ferry Terminals: Steep Roads leading to Rock & Asphalt at Sea level





Most ferry terminals have large rock formations that have been blasted or cut, with steep roads leading to them (perfect for downhill skateboarders). They are also infrastructural spaces that are underwhelming and full of asphalt and rubber. This project takes site A as the prototypical site condition.

legend (maps above): A. Rubber Base Station Boatshed B. Rubber Guardrail

C. Rubber Floating Dock











PROTOTYPE 2: Rubber Boatshed & Workshop

Material Depot and Training Base Station







legend

А.	Insulated WC
В.	Uninsulated WC
С.	Tool Storage
D.	Vending Machine for Travelers
Е.	Rubber Gutter
<i>F</i> .	Crane
<i>G</i> .	Spiral Stair to Mezzanine
Н.	Garage Door / Gate
Ι.	Flex Space
	(Exchange, Social Functions)
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PROTOTYPE 2: Rubber Boatshed & Workshop

Material Depot and Training Base Station





The structure relies on the corrugated rubber on one side, and the rock face on the other: The roof is a giant sail that is pulled taught in both directions by tensile elements.





PROTOTYPE 2: Rubber Boatshed & Workshop

Program housed within the Corrugated Folds...

PROTOTYPE 3: Rubber Cruising Sailboat

The Workforce Hostel & Vehicle









A cruising sailboat for the workforce to visit different field stations from.

Most sailboats have cabin tops; this original design frees the deck of such clutter, and it becomes a flat surface for new activities. A single mast, located all the way forward, assists in this, and a tent can be strung over the boom.

31' was the smallest design that would achieve modest accommodations for 2 people with standing room in the cabin (6'-3" clear).

The interior layout is based on the nonsuch 30' catboat design, which also employed a freestanding carbon fiber mast.

PROTOTYPE 3: Rubber Cruising Sailboat

The Workforce Hostel & Vehicle





PROTOTYPE 4: Floating Rubber Field Station

Experimentation & Training Classroom + Lab



A floating field station to study the affects of highway runoff and sewage on marine ecosystems and water quality. Once remediated, the same structure is added to above to become a diving tower, a typical recreational activity in Norwegian culture.





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